No.

THE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Hioneer Hi-Bred International, Inc.

MICCONS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SHIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'90M01'

In Jestimonn Marrest, I have hereunto set my hand and caused the seal of the Plant Pariety Protection Office to be affixed at the City of Washington, D.C. this twenty-third day of June, in the year two thousand and five.

Attest.

Mad Hermelic Seting Commissioner Plant Variety Protection Office

tary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

						•	
NAME OF OWNER Pioneer Hi-Bred Inter	national, Inc			2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 90M01			
4. ADDRESS (Street and No., or R.F.D. No. 7300 N. W. 62 rd Avenue P.O. Box 1004 Johnston, IA 50131	Country)	·	5. TELEPHONE (include a 515-254-2638	area code)	FOR OFFICIAL USE ONLY PVPO NUMBER		
	terminal production			6. FAX (include area code 515-253-2478	, Re	00500067 FILING DATE	
IF THE OWNER NAMED IS NOT A "PERSORGANIZATION (corporation, partnership Corporate	PORATED, GIVE FINCORPORATION	9. DATE OF INCORPORATION May 6, 1926	М	1/18/2005			
10. NAME AND ADDRESS OF OWNER R Daria Schmidt, Ph. D. 7300 N.W. 62 ^M Avenue P.O. Box 1004 Johnston ,IA 50131-1004	EPRESENTATIVE(S) TO SERVE Steve Callestine, Exq 7100 N.W 62 ¹⁰ Avenue P.O Box 1000 Johnston, IA 50131-1000	IN THIS APPLICATI	ON. (First person listed will	l receive all papers)		FILING AND EXAMINATION FEES: \$ 3,652.00 DATE 1/18/2005 CERTIFICATION FEE: \$ 432 DATE \$ /11/2005	
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area code) 515-253-2478		E-MAIL ia.schmidt@pioneer.com		14. CROF	PKIND (Common Name)	
f. X Voucher Sample (2,500 viebl verification that tissue culture w repository)	ng History of the Variety nctness tion of Variety stion of the Variety (Optional) basis of the Owner's Ownership be untreated seeds or, for tuber pro- till be depositied and maintained in \$2,705), made payable to "Treasu by Protection Office) ARVESTED MATERIAL) OR A HY	opegeted varieties, n an approved public urer of the United	20. DOES THE OVARIETY BE IF YES, WHICE 21. DOES THE OLIMITED AS THE OLIMITED AS THE ONLY Additional endings of the property o	S (If "yes", answer items 20 and 21 below) WNER SPECIFY THAT SEED C LIMITED AS TO NUMBER OF C CH CLASSES? FOUNDA WNER SPECIFY THAT THE CL TO NUMBER OF GENERATIONS CIFY THE FOUNDATI Explanation is necessary, please ETY OR ANY COMPONENT OF RIGHT (PLANT BREEDER'S RIGHT)	THE VARIET HT OR PATE	ety Protection Act) NO (If "no," go to item 22) YES NO REGISTERED CERTIFIED YES NO REGISTERED CERTIFIED Indicated on the reverse.) Y PROTECTED BY INTELLECTUAL ENT??	
IF YES, YOU MUST PROVIDE THE DATI FOR EACH COUNTRY AND THE CIRCU	E OF FIRST SALE, DISPOSITION MSTANCES. (Please use space	N, TRANSFER, OR L indicated on reverse	ISE REFERENCE	COUNTRY, DATE OF FILING O NUMBER. (Please use space in	R ISSUANCE dicated on rev	AND ASSIGNED /erse.)	
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.							
SIGNATURE OF OWNER TO AMA H, Sch	SIGNATURE OF (SIGNATURE OF OWNER					
NAME (Please print or type) Daria H. Schmidt	NAME (Please prii	NAME (Please print or type)					
CAPACITY OR TITLE Director, Technology Integration and Associative		7/05	CAPACITY OR TI		N.*	DATE	
T-470 (04-01) designed by the Plant Variety Pro	ntection Office with WordPerfect 6	On Poologge STD	470 (02-99) which is absol	ete (See reverse for laste	untions and in	oformation collection burden etatement)	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificates. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance. etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2500 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue; SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 90M01

Variety 90M01 evolved from a cross made in the winter of 1997/1998 in Chile with the following parentage:

YB004B/91B52* YB004B = Y3929R002/9042 Y3929R002 = McCall/Maple Isle

*91B52 is a line with the Roundup Ready (40-3-2) gene

Variety 90M01 is an F4-derived line which was advanced to the F4 generation by modified single-seed descent. The F4 progeny row of 90M01 was grown in a plant row in the summer of 2000 in Minnesota. Subsequently, 90M01 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, Phytophthora resistance, and resistance to Roundup labeled herbicides, variety 90M01 was assigned a commercial number.

The purification block was grown during the summer of 2003 in Minnesota and 28 sublines were harvested. An approximately half (1/2) acre increase was grown in Chile in 2003/2004. Eleven (11) acres of parent seedstock (foundation seed equivalent) and production seed were grown in the summer of 2004.

Exhibit B. Statement of Distinctness

Soybean Variety 90M01

Variety 90M01 is most similar to DeKalb (Monsanto) CX025. Both varieties have purple flowers, gray pubescence and yellow hila. However, 90M01 is resistance to Roundup branded herbicides and resistance to *Phytophthora megasperma* as governed by the Rps1k gene whereas CX025 does not have resistance to Roundup branded herbicides and has resistance to *Phytophthora megasperma* as governed by the Rps1a gene.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

		OB,			CRIPTION OF				
NAME OF APPLICANT(S)			SUX	BEAN (GI	ycine max (L.) N	vierr.)	FOR OFFICIAL U	SE ONLY	
Pioneer Hi-Bred, International							PVPO NUMBER		
ADDRESS (Street and No. or R.F.D. No., City	, State, and Zip C	ođ				4	1	~ 1 4 2	<i>∞</i> €
7300 62nd							200	5000	67
P.O Box 1004							VARIETY NAME		
Johnston, IA 50131-1004							90M01		
(187:1/31/2005 per applicants authorization)	•								
- Himmilton and							DESIGNATION	EXPERIMENTAL	
							YBOOCE		
PLEASE READ ALL INSTRUCTI	ONS CAREE	TH I.V. Pla	ce the	annronriate r	number that describ	as the registed show	notes of this verie	(87 % 1/31/20 appl	05 cer î cant's
Place a zero in the first box (e.g.	1		ſ			is either 99 or less o			
quantitative	9 9	9	or	0 9			•	•	
plant characters chould be based or	a minimum	of 100 plan	ts. Cor	mparative dat	' ta should be determ	ined from varieties	entered in the sar	ne trial. Royal	
Horticulutral Society or any recogn									
Please answer all questions for your	r variety; lacl	of respons	e may	delay progres	s of your application	n.			
A. MORPHOLOGY		•							
Seed Shape:									
-				• •		•			
$\frac{1 = Spherical}{2}$	PER ON N.T	4 4			pherical - Flatte				
(L/W, L/T, and	17W ratio	s < 1.2)		(L/W	ratio > 1.2; L/]	Γ ratio < 1.2)			
3 = Elongated				$4 = \mathbf{E}$	longate - Flatte	ned			
(L/T ratio . 1.2;	T/W ratio	< 1.2)		(L/T	ratio > 1.2;T/W	ratio > 1.2)		-	
Seed Coat Color:								**	
4							g Sp. C		
1 = Yello	w 2 =	Green	:	3 = Brown	4 = Black		_		
Seed Coat Luster:					Maria es	(Please S	Specify		
					and the second section of the second			-	
1 = Dull	2 =	Shiny	-		** **			-	
Seed Size:									
16.5 grams/100	seeds							•	
Hilum Color:									
2 1 = Buff	2 =	Yellow		3 = Brown	4 = Gray	5 = Imne	rfect Black		
6 = Black					- J - Gray	5 – Impe	lict Diath		
o = Black	. /=	Other (F	rease	эресцу)					

A. MORPHOLOGY (Continued)

200500067

Cotyledon Color:

1

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

2

1 = Low

2 = High

Hypocotyl Color:

1 = Green('Evans' or 'Davis')

2 = Green with Bronze

Bands below Cotyledons ('Woodworth' or 'Tracy') 3 = Light Purple below Cotyledons 4 = Dark Purple extending to unifoliolate leaves

('Hodgson', 'Coker', or

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

('Beeson' or 'Pickett 71')

Flower Color:

2

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

2

1 = Tan

2 = Brown

3 =Black

Pubescence Color:

1

1 = Gray

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

3

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

Maturity Group:

03

1 = 000

2 = 00

3 = 0

4 = I

5 = II

6 = III

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

 $15 = X\Pi$

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTION

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf_Foster) Young, Dye, Wilkie)

ungal 1 Brown S	pot (Septoria glycinesHen	nmi)	•	•	
Frogeye 1	Leaf Spot (Cercospora so	jina Hara)			
0 race 1	0 race	2	0 ra	ace 3	0 race 4
0 race 5	0 race	e 6	0 0	the (<i>Please Specify</i>)) .
O Target Sp	ot (Corynespora cassiicol	da (Berk. Curt.) Wei)			
O Downey M	ildew (<i>Peronospora trifo</i> i	liorum var. manchuric	a (Naum.) Sy	d. ex Gäum)	
O Powdery N	Iildew <i>(Microsphaera dif</i>	fusa Cke. and Pk.)			
0 Brown Ste	m Rot <i>(Phialophora gre</i> g	gata (Allington _Chan	ıberlain) W. (Gams.)	
O Stem Cank	er (Diaporthe phaseolor	um (Cke. and Ell.) Sa	cc. var. <i>cauli</i> :	vora Athow and Cald	well)
Pod and Si	em Blight <i>(Diaporthe pl</i>	haseolorum (Cke. and	Ell.) Sacc. va	nr. <i>sojae</i> (Lehman) W	ehm.
O Purple See	d Stain <i>(Cercospora ki</i> i	kuchii (T. Matsu. and	l Tomoyasu)	Gardener)	
1 Rhizoctoni	a Root Rot (Rhizoctonia	ı solani Kühn)		•	
tophthora Root	Rot (Phytophthora megas	sperma Drechs. f. sp.	glycinea (K	uan Erwin))	
o race 1	0 race 8	0 race 15	0	race 22	
) race 2	0 race 9	0 race 16	0	race 23	
) race 3	0 race 10	0 race 17	0	race 24	ing and the second seco
race 4	0 race 11	0 race 18	0	race 25	
race 5	0 race 12	0 race 19	0	race 26	
race 6	0 race 13	0 race20	0	Other (Please Spe	ecify)
race 7	0 race 14	0 race 21	L	¹ [0	
Bud Blight	Tobacco Ringspot Virus))			

B. DIS	EASE REAC'	TION	S (Continued)	0 = No	t Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
Funga	¬ ·	aic (Co	wpea Chlorotic V	(irus)					
1			od Mottle Virus)						
1	Seed Mottle (Soybea	n Mosaic Virus)						•
Nema	tode							·	
Soybe	an Cyst Nematod	le <i>(He</i>	terodera glycines	Ichinohe	e)		•		
0	race 1	0	race 4	0	race 9				
0	race 2	0	race 5	0	race 14				
0	race 3	0	race 6	0	Other	(Please Specify)			
			1400						
0	Lance Nemate	ode (E	Ioploaimus colum	bus Sher)				
0	Southern Roo	t Knot	Nematode (<i>Meloi</i>	dogyne ir	ncognita (Kofoid and White) Chitwo		
0	Northern Roo	t Knot	Nematode (<i>Meloi</i>	dogyne h	apla Chit	wood)			
0	Peanut Root I	Knot Ne	ematode <i>(Meloido</i>	gyne arei	naria (Nes	al) Chitwood)			
0	Reniform Nen	atode	(Rotylenchus ren	iformus)	Linwood a	nd Olivera)			
0	Javanese Nem	atode (Meloidogyne javo	anica (Ti	reub) Chit	wood)			•
0	Other Nemato	de (P	lease Specify) 0						
. PHY	YSIOLOGICA	L RE	SPONSES	0 = Not	Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
2	Iron Chlorosis	on Cal	careous Soil					·	
0	Phosphorus				O Oth	er <i>(Please Speci</i> j			
0	Boron					a Migha a thi			
0	Aluminum								,
0	Salt								
n	Drought				•				

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Toler	ant
Fungal					
Mexican Bean Beetle (Epilaci	hna varivestis Mulsant)				
O Potato Leaf Hopper (Empoase	ca fabae (Harris))				
O Other (Please Specify)					·
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant		
0 Metribuzin					·
0 Bentazone					
1 Sulfonylurea					
2 Glyphosate					
0 Glufosinate	·			*	
0 Pendimethalin					
O Other (Please Specify)					
F. TRANSGENIC COMPOSITIO	N		···-	•	
Has the development of the subject variety the removal of genetic material from the a	rincluded the insertion of pplication variety?	genetic material fr ☑ Yes	rom an organism o	ther than a	soybean, or,
If yes, please complete the following infom	ation requests*. Use addi	•	essary.		
1. Please state the vector's name:					
2. Please state the vector components:					4
3. Please describe the genetic material suc	cessfully transferred into	the subject variety	· •		· ·
4. Please describe the insertion protocol:					·
* A literature citation(s) explaining the "Transgenic Composition" portion of this the vector components and insert elements Development, Identification, and Characte	form. This section is full are summarized in Figur	y addressed in the : e 1 and Table 1 on	following publicat page 1453. Padge	ion. Specifi ette, S.R. et a	c details of al.
G. BIOCHEMICAL MARKERS					**
Please describe any biochemical information Simple Sequences Repeats, Restriction Fra	on here, which you believe gment Length Polymorph	will be helpful in i isms, Isozymic Cha	further describing aracterization).	the subject Jse addition	variety (e.g. al pages if

necessary.

H. COMMENTS

Exhibit D. Additional Description of the Variety

Soybean Variety 90M01

In Exhibit C we have identified variety 90M01 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 90M01 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 90M01 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 90M01 is an early Group 0 variety. If Group 0 varieties are divided into tenths, the relative maturity of 90M01 is 0.0.

REPRODUCE LOCALLY. Include form number and edition date on a	all reproductions.	FORM APPROVED - OMB No. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paper	in accordance with the Privacy Act of Reduction Act (PRA) of 1995.
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 confidential until the certificate is iss	2421). The information is held
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER	90M01
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston, IA 50131-1004	515-254-2638	515-253-2478
	7. PVPO NUMBER 2 0 0 5	00067
8. Does the applicant own all rights to the variety? Mark an "X" in the lf no, please explain.	he appropriate block.	X YES NO
9. Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	XYES NO
10. Is the applicant the original owner?	If no, please answer one of the fo	llowing:
	NO	
 a. If the original rights to variety were owned by individual(s), is 	(are) the original owner(s) a U.S. Nation	nal(s)?
YES NO If no, give name of count		acad aamaanuQ
b. If the original rights to variety were owned by a company(ies YES NO If no, give name of count		ased company?
11. Additional explanation on ownership (If needed, use the reverse	o for extra space):	
Please Note:		
	and the fall of the first	
Plant variety protection can only be afforded to the owners (not licer 1. If the rights to the variety are owned by the original breeder, that p	,	of a UPOV member country, or
national of a country which affords similar protection to nationals	of the U.S. for the same genus and spec	cies.
If the rights to the variety are owned by the company which emplo nationals of a UPOV member country, or owned by nationals of a genus and species.	oyed the original breeder(s), the compan country which affords similar protection	ny must be U.S. based, owned by to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must r	meet one of the above criteria.
The original breeder/owner may be the individual or company who d Act for definitions.	irected the final breeding. See Section	41(a)(2) ot the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a for this information collection is 0581-0055. The time required to complete this information instructions, searching existing data sources, gathering and maintaining the data needed, a	collection is estimated to average 6 minutes per resp	onse, including the time for reviewing the
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